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L3	721	strong adj3 (password or "pin" or passphrase or passcode)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2006/06/08 12:08
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Result page: **1** [2](#) [3](#) [4](#) [5](#) [6](#) [next](#)Relevance scale **1** [Assurance in life/nation critical endeavors: Biometrics or ... biohazards?](#)  John Michael Williams September 2002 **Proceedings of the 2002 workshop on New security paradigms****Publisher:** ACM PressFull text available:  [pdf\(1.17 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

IPSE DIXIT Biometrics as an array of deployable technologies presumes an elaborate infrastructure, including underlying science that justifies its claims of detection, classification, identification and authentication of individual human identities; particularly of those who are runaways, illegal immigrants, fugitives, criminals, terrorists, and so on. This will now too often be literally a matter of life and death, both for the public and the individuals identified. The "New Security Paradigm" em ...

**2** [Voice biometrics](#)  Judith A. MarkowitzSeptember 2000 **Communications of the ACM**, Volume 43 Issue 9**Publisher:** ACM PressFull text available:  [pdf\(240.49 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#) [html\(36.88 KB\)](#)**3** [The battle against phishing: Dynamic Security Skins](#)  Rachna Dhamija, J. D. TygarJuly 2005 **Proceedings of the 2005 symposium on Usable privacy and security SOUPS '05****Publisher:** ACM PressFull text available:  [pdf\(398.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Phishing is a model problem for illustrating usability concerns of privacy and security because both system designers and attackers battle using user interfaces to guide (or misguide) users. We propose a new scheme, Dynamic Security Skins, that allows a remote web server to prove its identity in a way that is easy for a human user to verify and hard for an attacker to spoof. We describe the design of an extension to the Mozilla Firefox browser that implements this scheme. We present two novel inte ...

**4 Architecture for Protecting Critical Secrets in Microprocessors**

 Ruby B. Lee, Peter C. S. Kwan, John P. McGregor, Jeffrey Dwoskin, Zhenghong Wang  
May 2005 **ACM SIGARCH Computer Architecture News, Proceedings of the 32nd Annual International Symposium on Computer Architecture ISCA '05**,  
Volume 33 Issue 2

**Publisher:** IEEE Computer Society, ACM Press

Full text available:  [pdf\(143.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

We propose "secret-protected (SP)" architecture to enable secure and convenient protection of critical secrets for a given user in an on-line environment. Keys are examples of critical secrets, and key protection and management is a fundamental problem  $\&$  often assumed but not solved  $\&$  underlying the use of cryptographic protection of sensitive files, messages, data and programs. SP-processors contain a minimalist set of architectural features that can be built into a general-purpose microprocess ...

**5 Smart Cards and Biometrics: The cool way to make secure transactions**

David Corcoran, David Sims, Bob Hillhouse  
March 1999 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  [html\(22.95 KB\)](#) Additional Information: [full citation](#), [index terms](#)

**6 Student papers: Access control & biometrics**

 Nataliya B. Sukhai  
October 2004 **Proceedings of the 1st annual conference on Information security curriculum development**

**Publisher:** ACM Press

Full text available:  [pdf\(63.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper introduces readers to the world of information technology and data security as a part of it. It talks about access control, its components, and levels and types of access control. The paper recognizes the importance of identifying and authenticating any given user in the business areas. Therefore, it gives full attention to biometrics as one of the access control technology and discusses variety and performance of other known techniques; points out the advantages and disadvantages of ...

**Keywords:** access control, biometrics

**7 Late breaking result papers: Passwords you'll never forget, but can't recall**

 Daphna Weinshall, Scott Kirkpatrick  
April 2004 **CHI '04 extended abstracts on Human factors in computing systems**

**Publisher:** ACM Press

Full text available:  [pdf\(361.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We identify a wide range of human memory phenomena as potential certificates of identity. These "imprinting" behaviors are characterized by vast capacity for complex experiences, which can be recognized without apparent effort and yet cannot be transferred to others. They are suitable for use in near zero-knowledge protocols, which minimize the amount of secret information exposed to prying eyes while identifying an individual. We sketch several examples of such phenomena[1-3], and apply them in ...

**Keywords:** adaptive interfaces, human memory, identity, passwords, security

**8 On-line e-wallet system with decentralized credential keepers**

Stig Frode Mjølsnes, Chunming Rong  
 February 2003 **Mobile Networks and Applications**, Volume 8 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(240.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a generalization of the architecture of an electronic wallet, as first developed in the seminal European research project CAFE. With this model you can leave most of the content of your electronic wallet at the security of your residential electronic keeper, while roaming with your favorite mobile terminals. Emerging mobile handsets with both short range Bluetooth and cellular GPRS communications provide a sufficient communication platform for this electronic wallet architecture. Howe ...

**Keywords:** digital credentials, e-wallet architecture, mobile commerce, payment protocols, privacy

**9 Face recognition: A literature survey**

 W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld  
 December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Publisher: ACM Press

Full text available: [pdf\(4.28 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

**Keywords:** Face recognition, person identification

**10 DMSEC session: User re-authentication via mouse movements**

 Maja Pusara, Carla E. Brodley  
 October 2004 **Proceedings of the 2004 ACM workshop on Visualization and data mining for computer security**

Publisher: ACM Press

Full text available: [pdf\(179.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present an approach to user re-authentication based on the data collected from the computer's mouse device. Our underlying hypothesis is that one can successfully model user behavior on the basis of user-invoked mouse movements. Our implemented system raises an alarm when the current behavior of user X, deviates sufficiently from learned "normal" behavior of user X. We apply a supervised learning method to discriminate among k users. Our empirical results for eleven users show that we can ...

**Keywords:** anomaly detection, mouse dynamics, user re-authentication

**11 Risks to the public: Risks to the public**

 Peter G. Neumann  
 May 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 3

Publisher: ACM Press

Full text available: [pdf\(177.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM

Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual disclaimers apply. We address problems relating to software, hardware, people, and other circumstances relating to computer systems. To economize on space, we include pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

**12 Risks to the public: Risks to the public**

 Peter G. Neumann

July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4

**Publisher:** ACM Press

Full text available:  [pdf\(151.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual disclaimers apply. We address problems relating to software, hardware, people, and other circumstances relating to computer systems. To economize on space, we include pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

**13 A fuzzy commitment scheme**

 Ari Juels, Martin Wattenberg

November 1999 **Proceedings of the 6th ACM conference on Computer and communications security**

**Publisher:** ACM Press

Full text available:  [pdf\(966.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We combine well-known techniques from the areas of error-correcting codes and cryptography to achieve a new type of cryptographic primitive that we refer to as a fuzzy commitment scheme. Like a conventional cryptographic commitment scheme, our fuzzy commitment scheme is both concealing and binding: it is infeasible for an attacker to learn the committed value, and also for the committer to decommit a value in more than one way. In a convert ...

**14 Special session on security on SoC: Securing wireless data: system architecture challenges**

 Srivaths Ravi, Anand Raghunathan, Nachiketh Potlapally

October 2002 **Proceedings of the 15th international symposium on System Synthesis**

**Publisher:** ACM Press

Full text available:  [pdf\(172.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Security is critical to a wide range of current and future wireless data applications and services. This paper highlights the challenges posed by the need for security during system architecture design for wireless handsets, and provides an overview of emerging techniques to address them. We focus on the computational requirements for securing wireless data transactions, revealing a gap between these requirements and the trends in processing capabilities of embedded processors used in wireless h ...

**Keywords:** 3DES, AES, DES, IPsec, RSA, SSL, WTLS, decryption, design methodology, embedded system, encryption, handset, mobile computing, performance, platform, security, security processing, system architecture, wireless communications

**15 Systems: Authorization for digital rights management in the geospatial domain**

Andreas Matheus

November 2005 **Proceedings of the 5th ACM workshop on Digital rights management DRM '05**

**Publisher:** ACM Press

Full text available: [pdf\(829.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Since information is available in digital format, the protection of intellectual property and copyright fraud has become an important issue. This is, because the digital content can be copied without quality loss and with a reasonable effort of time, equipment and money. After copying, it can be distributed using the Internet, again with little effort of time and money. In such an environment, the loss of revenue for the music and film industry -- not only due to sites like Napster -- is becomin ...

**Keywords:** DRM, access control, geoXACML, geospatial

16 National id card: the next generation: The US/Mexico border crossing card (BCC): a 

 case study in biometric, machine-readable id

Andrew Schulman

April 2002 **Proceedings of the 12th annual conference on Computers, freedom and privacy**

**Publisher:** ACM Press

Full text available: [htm\(187.31 KB\)](#) Additional Information: [full citation](#), [index terms](#)

17 Unobtrusive user identification with light biometrics 

 Heikki Ailisto, Mikko Lindholm, Satu-Marja Mäkelä, Elena Vildjounaite

October 2004 **Proceedings of the third Nordic conference on Human-computer interaction NordiCHI '04**

**Publisher:** ACM Press

Full text available: [pdf\(100.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Biometric methods are used for recognition and verification of the identity of a person in many applications. Certain concerns over the obtrusive nature of their use, threats to privacy and even the danger of identity theft are rising. In this paper unobtrusive and privacy preserving light biometrics, such as height, weight, and body fat percentage are suggested for user identification. An experiment with 62 test subjects was conducted. In verification type of application total error rate of ...

**Keywords:** biometrics, body fat percentage, height, identification, identity theft, privacy, verification, weight

18 Poster: A secure fingerprint matching technique 

 Shenglin Yang, Ingrid M. Verbauwhede

November 2003 **Proceedings of the 2003 ACM SIGMM workshop on Biometrics methods and applications**

**Publisher:** ACM Press

Full text available: [pdf\(452.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we propose a novel robust secure fingerprint matching technique, which is secure against side channel attacks. An algorithm based on the local structure of the minutiae is presented to match the fingerprints. The main contribution is the careful division of the fingerprint recognition system into two parts: a secure part and a non-secure part. Only the relative small secure part, which contains sensitive biometric template information, requires realization in specialized DPA-proof ...

**Keywords:** DPA-proof, embedded system, fingerprint recognition, secure matching

**19 Password Management and Digital Signatures: Error-tolerant password recovery**

Niklas Frykholm, Ari Juels

November 2001 **Proceedings of the 8th ACM conference on Computer and Communications Security**

Publisher: ACM Press

Full text available:  [pdf\(250.03 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many encryption systems require the user to memorize high entropy passwords or passphrases and reproduce them exactly. This is often a difficult task. We propose a more fault-tolerant scheme, where a high entropy key (or password) is derived from a sequence of low entropy passwords. The user is able to recover the correct key if she remembers a certain percentage of the passwords correctly. In contrast to other systems that have been proposed for fault-tolerant passwords, our basic design is pro ...

**Keywords:** Reed-Solomon codes, error-correcting codes, fault-tolerance, fuzzy commitment, password ensembles, password recovery

**20 User authentication through keystroke dynamics**

Francesco Bergadano, Daniele Gunetti, Claudia Picardi

November 2002 **ACM Transactions on Information and System Security (TISSEC)**,

Volume 5 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(351.02 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Unlike other access control systems based on biometric features, keystroke analysis has not led to techniques providing an acceptable level of accuracy. The reason is probably the intrinsic variability of typing dynamics, versus other---very stable---biometric characteristics, such as face or fingerprint patterns. In this paper we present an original measure for keystroke dynamics that limits the instability of this biometric feature. We have tested our approach on 154 individuals, achieving a F ...

**Keywords:** Biometric techniques, keystroke analysis

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IEEE JNL IEEE Journal or Magazine

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. IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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O'Gorman, L.;  
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